

5701 Old Redwood Hwy
 Penngrove, CA 94951
 (415) 924-9022

Job: Maserati A6 2147

For: [REDACTED]

Invoice Date: 11/6/2024

Invoice #: 4829

5	Brian	Aug. 2 Drive to San Leandro and pick up chassis # 2147 from freight storage, return to Penngrove.	135.00	675.00
1	Brian	Oct. 8 Test drive Chassis #2180, clutch slipping.	135.00	135.00
3	Gerardo	Oct. 8 Perform a cold leakdown check on each motor. Engine #2146 Cyl.#1 1%> Cyl.#2 5%> Cyl.#3 1%> Cyl.#4 1%> Cyl.#5 2%> Cyl.#6 1% Engine #2180 Cyl.#1 5%> Cyl.#2 2%> Cyl.#3 1%> Cyl.#4 1%> Cyl.#5 2%> Cyl.#6 5%	135.00	405.00
4.5	Gerardo	Oct. 9 For vehicle with chassis number 2180. Vehicle raised and supported with jack stands. Coolant, engine oil, and gearbox oil drained. Drain plug washers replaced and gearbox drain plug safety wired. Heat shield removed. Oil feed tube from block to cylinder head removed. Exhaust manifolds removed, gasket material scraped and cleaned from flanges to downpipe, gasket for exhaust manifolds to cylinder head removed.	135.00	607.50
8	Gerardo	Oct. 10 For vehicle with chassis number 2180. Generator wiring removed. Lower water pipe and hoses removed, upper radiator hose removed. Temperature sender removed. Cooling fan unplugged and radiator removed. Fan, fan bracket, and belt removed. Throttle return springs, carburetor linkages, fuel feed tube, and carburetor trumpets removed. Carburetors removed, fuel drained from carbs. Starter wires disconnected and starter removed. Shifter boot removed. Distributor cover and distributor cap removed. Distributor removed.	135.00	1,080.00

Total

Payments/Credits

Balance Due

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8	Gerardo	Oct. 11 For vehicle with chassis number 2180. Floor mats, seats, and gearbox tunnel removed. Generator and water pump removed. Tach and speedo drive removed. Spark plug wires and tube removed. Clutch release rod removed. Drive shaft disconnected from gearbox. Gearbox removed. Motor mounting bolts and motor removed. For vehicle with chassis number 2147. Battery removed from vehicle, will not take charge. New battery installed.	135.00	1,080.00
1	Brian	Oct. 15 Test drive 2147. Ran well, no issues noted.	135.00	135.00
9.5	Gerardo	Oct. 15 For vehicle with chassis number 2180. Clutch pressure plate and disc removed from motor and inspected. Pressure plate is missing springs, not making full contact with disc. Splined shaft on disc is loose. Motor degreased. Exhaust gasket material scraped from downpipes. Engine and engine bay degreased. Adjustment made at steering gear box to remove excess play in steering wheel. Pressure plate disassembled. Spring pressure measured, too soft causing clutch to slip. Spare pressure plate found in the shop and disassembled. Spring pressure from spare plate measured, springs are stiffer and should prevent clutch from slipping.	135.00	1,282.50
5	Gerardo	Oct. 16 For vehicle with chassis number 2147. Vehicle raised and supported with jack stands. Coolant drained. Floor mats, seats, and gearbox tunnel removed. Distributor cover removed. Distributor cap removed from distributor, distributor removed.	135.00	675.00

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8	Gerardo	Oct. 17 For vehicle with chassis number 2147. Spark plug wires removed from distributor cap and labeled, will not fit through firewall. Spark plug wires and tube removed. Tach drive removed. Clutch rod removed. Engine and gearbox oil drained. Drive shaft disconnected and gearbox removed. Heat shield and headers removed. Radiator hoses, heater hoses, and coolant temp sender removed. Radiator removed. Cooling fan and belt removed. Generator wiring disconnected, generator and water pump removed. Generator pulley has excess play.	135.00	1,080.00
8	Gerardo	Oct. 18 For vehicle with chassis number 2147. Fuel feed tubes and hoses removed. Choke cable removed. Air filters removed. Linkages to carburetors removed, carburetors removed. Throttle to carb linkage removed. Starter wiring and starter removed. Tach drive removed. Motor pulled from vehicle. Engine bay degreased and cleaned.	135.00	1,080.00

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8	Gerardo	Oct. 22 Clutch removed from engine 2180 and inspected, bolts for pressure plate not torqued evenly and center spline portion of clutch disc loose, disc is cracked in multiple locations where the plate houses the springs. Intake manifolds removed from both motors, oil found in intake ports on engine 2180. Intake manifold gaskets made for engine 2146. Intake manifold from 2180 installed onto engine 2146 with new gaskets and silicone.	135.00	1,080.00
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For vehicle with chassis number 2147. Engine 2146 installed into vehicle. Starter and wiring installed. Throttle linkage connected.

8	Gerardo	Oct. 23 For vehicle with chassis number 2147. Radiator installed into vehicle, upper radiator hose reconnected. Hose from intake manifold to radiator cracked, hose replaced. Line for oil pressure gauge installed. Cooling fan and bracket degreased and installed. Water pump degreased and installed. Front motor mount bolt removed and engine raised from the front to install distributor, would not clear the firewall. Front motor mount bolt reinstalled. Spark plug wires routed and spark plug tube installed. Spark plug wire ends inspected, some are too loose of a fit. Brass contact points on wires expanded out for a more snug fit on distributor cap. Wires installed onto cap.	135.00	1,080.00
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8	Gerardo	Oct. 24 For vehicle with chassis number 2147. Distributor cap installed onto distributor. Distributor cover installed. Tach cable was not connected to gauge, cable reconnected to gauge. Carburetors degreased and mounting gaskets made. Carburetors installed with new mounting gaskets and silicone. Carburetor and throttle linkages reconnected. Throttle tested, throttle will not move. Accelerator pump cam for carburetor number 3 hitting stud. Carburetor number 3 removed. Stud removed and shortened .030 inches, stud reinstalled. Carburetor number 3 reinstalled and throttle tested, throttle now moves as it should. Choke cable installed and carburetors synchronized for even choke engagement. Fuel feed pipes and air filters reinstalled onto carburetors.	135.00	1,080.00
8	Gerardo	Oct. 25 For vehicle with chassis number 2147. Generator pulley removed and generator disassembled. Generator brush broken, armature shaft is broken. Shaft appears to have been repaired in the past but the repair failed. New gaskets made for generator. Exhaust manifold gasket reinstalled onto cylinder head. Exhaust manifolds degreased and installed. Oil pipe from block to cylinder head fitted, pipe will not properly fit. Oil pipe from vehicle number 2180 test fit, aligns properly. Oil pipe installed with new copper washers. Exhaust gaskets made for exhaust manifolds to downpipes, extra set made for vehicle with chassis number 2180. Exhaust manifolds bolted onto downpipes.	135.00	1,080.00

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4	Gerardo	Oct. 29 Engine number 2180 cleaned and degreased. Intake ports cleaned. Hose from rear oil drain pipe to sump cracked, hose replaced.	135.00	540.00
2	Verna	Oct. 31 Look over crack in side of block for car 2180 (?) determine length of crack and mark. drill a 1/16" hole at leading edge of crack and use welding rod with a 90 at the end to determine block thickness. look through lock n stitch inventory to see what we have in stock. look up call and email lock n stitch to acquire the correct stitching pins and fluids.	135.00	270.00
1	Verna	Nov. 1 Call and go over order and procedures for lock and stitch for side of block repair. order kit.	135.00	135.00
	HAZMAT	Hazardous waste fees	25.00	25.00
	Consuma...	Consumable parts and supplies	20.00	20.00
		Sales Tax	9.50%	1.90

Total	\$13,546.90
Payments/Credits	\$0.00
Balance Due	\$13,546.90

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Please Note: The gearbox/clutch for this car is different than the one in #2180. There were several points of interference that needed to be relieved through trial and error.

5.5	Gerardo	Jan. 30 Generator components cleaned. Generator armature installed into housing, voltage regulator mounted. Front and rear plates for housing installed. Heat-shield test fit, voltage regulator will not allow it to seat completely. Voltage regulator filed to fit and shield installed. Pulley reinstalled, drive dog and its housing reinstalled. Gearbox bell housing, clutch release arm, shaft, and release fork cleaned. Clutch release fork and shaft installed into gearbox. Movement tested, release fork is hitting housing and restricting travel, need to file down for more movement.	135.00	742.50
1	Spenser	Jan 30 Work with Gerardo on diagnose and correct clutch release fork movement restriction.	135.00	135.00

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8.5	Gerardo	Jan. 31 Clutch release fork sanded down where it hits gearbox and test fit, still needs more movement. Release fork grinded down with angle grinder and test fit, still needs more movement but cannot remove more material without compromising amount of thread left on release fork. Seal and bearing cover behind clutch release fork removed, grinded down with angle grinder, and test fit with release fork, more movement required to install over throw out bearing. Cover removed and more material removed, cover test fit with release fork, still needs more movement to fit. Plate removed and more material taken off, plate test fit with components and now has proper travel. Pressure plate put into press and mounting blocks for pivots installed. Clutch height measured to check for even engagement, nuts for pivots adjusted and remeasured. Height ranges from 2.090 to 2.096 inches, new cotter pins installed for adjusting nuts.	135.00	1,147.50
2	Spenser	Jan 31 Worked with Gerardo on clutch assembly, checking and setting clutch throwout height, and adjusting pivots	135.00	270.00

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7	Gerardo	Feb 4 Silicone cleaned from speedo drive unit and bore, split lock washer found between mating surfaces causing it to leak. Silicone applied to speedo unit flange and reinstalled onto gearbox. Pressure plate and flywheel surfaces cleaned. Tape added to clutch alignment tool for a more snug fit. Clutch disc and pressure plate fit, disc aligned, and pressure plate bolts torqued. Gearbox fit but will not fully seat against motor, gearbox removed. Alignment of clutch checked, disc shifted slightly. Pressure plates loosened and disc realigned, gearbox refit, still has a slight gap, would prefer not to force it together with mounting hardware. Clutch removed and gearbox test fit to ensure input shaft seats properly in pilot bearing, good fit. Gearbox removed, clutch aligned, fit, and torqued.	135.00	945.00
2	Spenser	Feb 4 Worked with Gerardo to help with gearbox reinstallation, checking clutch clearance and gearbox alignment, shaft clearance.	135.00	270.00

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8	Gerardo	Feb 5 Gearbox installed, clutch release arm only has half travel before it hits hardware on motor. Gearbox removed and clutch release arm rotated 3 splines clockwise, gearbox reinstalled. Cannot mount clutch release rod, too close to firewall, gearbox removed and release arm rotated 1 spline counterclockwise, gearbox reinstalled. Clutch release rod adjusted and installed. Clutch tested, too much free play. Release rod adjusted and clutch retested, free play is minimal but clutch will not disengage. Adjusting nuts for pressure plate pivots tightened 1 turn, clutch retested. Pedal feels loaded and still no disengagement. Adjusting nuts backed off 1 turn, clutch release arm removed, and gearbox removed. Clutch removed and inspected, disc will not sit flush with pressure plate. Disc given to Spenser for machining. Clutch installed, release arm clocked and gearbox installed. Clutch release rod installed and clutch tested, still no disengagement.	135.00	1,080.00
4	Spenser	Feb 5 Worked with Gerardo on gearbox installation/removal, clutch arm alignment, and clutch engagement. Clutch is not disengaging, checked clutch pivot nut adjustment, removed gearbox, found disc hitting pressure plate, machined disc	135.00	540.00

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8	Gerardo	Feb 6 Clutch release rod disconnected from gearbox, gearbox removed and inspected. Gearbox snout too long. Clutch release arm and fork removed, snout removed. Snout removed and shortened, mating surfaces cleaned and reinstalled with flange sealant. Release fork and arm reinstalled. Gearbox reinstalled, clutch release rod adjusted and installed. Clutch tested, still wont disengage. Gearbox removed, need to measure if input shaft is hitting crank. ;Output shaft is binding at a certain point of rotation. Shifter assembly removed. U joint and yoke removed from gearbox. Gears tested, after shifting into 4th gear output shaft rotates freely. Output shaft housing removed to further inspect. Bearing and seal pressed out of housing, bearing inspected, spins freely. Bearing and yoke fit onto output shaft and torqued, does not bind. Problem lies in relation to yoke and bearing stack in housing.	135.00	1,080.00
2	Spenser	Feb 6 Worked with Gerardo to diagnose clutch still failing to disengage, determined bobbin snout on gearbox to be contacting clutch disc, suggested shout get shortened. Helped with reassembly, slight improvement but still no clutch disengagement.	135.00	270.00

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8	Gerardo	Feb 7 Output shaft bearing and its bore cleaned with solvent and 325 grit emery cloth. Bearing pressed back into housing, seal installed. Output shaft housing and yoke installed, yoke nut torqued to 125 foot pounds. Heat applied to housing to help bearing self locate. Output shaft spun in neutral and all gears, no longer binds. Housing removed, mating surfaces cleaned, silicone applied, and reinstalled. Yoke nut torqued to 125 foot pounds with red loctite. Back up switch removed, shifter assembly installed with gasket and silicone, switch reinstalled. Silicone applied to speedo drive and installed, output shaft is bound when speedo drive is bolted down. Gasket made for speedo drive, speedo drive installed with gasket and silicone, shaft spins freely. Measurements taken for clearance between input shaft and crankshaft, measurements taken for length of travel between throw out bearing bobbin and snout plate.	135.00	1,080.00
	Spenser	Feb 7 Worked with Gerardo to check for possible input shaft to crankshaft fouling, none found. (No Charge)		0.00

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8	Gerardo	Feb 11 Clutch removed, gearbox fit to check clearance between input shaft splines and pilot bearing, plenty of clearance. Pressure plate disassembled, replacement springs removed and 3 original weak springs substituted. Pressure plate reassembled, disc and plate relationship checked, disc spring cage is hitting pressure plate spring housing. Material removed from disc spring cage, fitment test with disc, more material removal required. Pressure plate disassembled to remove material from spring housing, pressure plate reassembled after machining. More material removed from disc spring cage, now clears pressure plate spring housing. Clutch and gearbox reinstalled, clutch disengagement tested, still will not disengage.	135.00	1,080.00
4	Spenser	Feb 11 Work with Gerardo on further inspection of clutch failure to disengage, inspect input shaft splines to pilot bearing clearance, no fouling found. Suggested removing all springs from pressure plate and reassembling with 3 weak springs to allow easier testing of clutch, found clutch disc spring cage hitting pressure plate housing, machined pressure plate spring housing to remove material to clear spring cages.	135.00	540.00

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8	Gerardo	Feb 12 Pressure plate pivot nuts tightened 1 turn, still no disengagement. Gearbox and clutch removed, pressure plate and disc inspected. Pressure plate spring housing and disc still making contact. Pressure plate disassembled, reassembled after machining. Clutch and gearbox installed and disengagement tested, clutch is starting to disengage, further machining of spring housing required. Pressure plate disassembled, reassembled after machining. Clutch and gearbox reinstalled and disengagement tested, clutch disengages but spring housing still making light contact with disc. Gearbox and clutch removed, pressure plate disassembled. Pressure plate reassembled with previously selected stronger springs. Clutch and gearbox reinstalled, disengagement tested, full disengagement with no contact with spring housing and disc. Pressure plate pivot nuts adjusted to remove freeplay.	135.00	1,080.00
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5	Spenser	Feb 12 Worked with Gerardo on clutch still failing to disengage, found clutch spring cages still contacting pressure plate housing, machined housing to remove more material. Due to the geometry of the pressure plate design, this can only be checked when the clutch assembly is installed on the flywheel and transmission is installed to actuate the clutch and check for proper movement, clearance, and disengagement. After one more attempt, found clutch still touching pressure plate housing, machined one last time and helped with reassembly, clutch now disengages properly. Helped adjust pivot nuts to provide proper alignment and free play	135.00	675.00
6	Gerardo	Feb 13 Clutch release rod and clevis pin making contact with engine block. Release rod removed and examined, rod fork to clutch release lever is bowed out, loose fit on lever. Rod fork bent for tighter fit. Clevis pin end sanded down and washers added on for more clearance. Gearbox removed, cotter pins installed into pressure plate pivot nuts. Clutch release arm removed and examined, washer added between arm and gearbox for additional clearance for release rod fork and clevis pin. Release arm rotated 1 spline clockwise in relation to fork for throw out bearing. Gearbox installed, clutch release rod adjusted and installed. Clearance has improved, makes slight contact towards end of clutch pedal travel. New spark plugs installed.	135.00	810.00

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2	Spenser	Feb 13 Worked with Gerardo on clutch release fork and clevis/pin assembly hits bellhousing, suggested crimping clevis for tighter fit and adjusting release arm alignment.	135.00	270.00
8	Gerardo	Feb 14 Water pump and outlet flanges cleaned. Generator positioned in bracket, posts and bracket unbolted to position farther forward. Water pump mounted, generator bolted to water pump, generator bolted into bracket. Water outlet to lower radiator hose bolted to water pump, radiator hose installed. Generator pulley does not line up with other pulleys, shaft is also binding. Water outlet removed, generator unbolted from bracket and pulley spun, still bound. Water pump and generator removed, water pump unbolted from generator, generator pulley tested, spins free. Generator drive dog making contact with its housing, housing bolt holes hogged out. Housing centered, water pump bolted to generator. Water pump and generator reinstalled, outlet bolted to water pump. Generator posts and bracket fastened, wires connected.	135.00	1,080.00
	Spenser	Feb 14 Worked with Gerardo on generator pulley alignment, found pulley shimming to be incorrect and inner pulley shiv to be backwards, adjusted shimming and reversed inner pulley shiv to properly align pulley (No Charge)	0.00	0.00

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7	Gerardo	Feb 18 Generator pulley flipped 180 degrees and reinstalled, pulley now aligns. Fan belt reinstalled. Heater hose from valve to upper water outlet reinstalled, clamp for other heater hose flipped to match other clamps. Cooling system filled with water for testing, checked for leaks. Clevis and pin for clutch release rod rubbing block towards end of travel. Release rod removed, gearbox removed. Clevis pin at release lever flipped 180 for additional clearance. Attempted to install gearbox with rod, will not clear firewall. Gearbox reinstalled without rod. Rod reinstalled, clearance required roughly measured, need an additional .050 to clear block. Clutch release rod removed, clevis at release arm removed. Removed about .050 of material from side of clevis closest to block. Release rod reinstalled, clutch tested, now clears block.	135.00	945.00
8	Gerardo	Feb 19 Remaining hardware for mounting gearbox installed. Cotter pins installed for clutch release rod. Speedo cable and brake light wiring reinstalled. Oil for gearbox strained, gearbox refilled, new copper washer for fill plug, checked for leaks. U joint from gearbox to driveshaft disassembled, cleaned, greased, and reassembled. Splines for driveshaft yoke greased. U joint bolted to gearbox, caps connecting to driveshaft will not compress, excess grease removed. Drive shaft reconnected. Tachometer removed for repair. Drain plug removed from rear end, rear end overfilled, fine metal debris found in fluid, no shavings or chunks of material. Brake fluid checked, fluid level is low. Recommend bleeding system.	135.00	1,080.00

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8	Gerardo	Feb 20 Dipstick rerouted, best fit without modifying is between carbs 2 and 3. Dipstick fitment with tube too tight, cannot fully insert dipstick. Tube removed, inside sanded with angle grinder until fit was snug. Tube and dipstick reinstalled. Old brake fluid evacuated from reservoir. Brakes vacuum bled, pedal tested, slight improvement. Sump for rear end removed to drain oil, fine metal debris found, no chunks or shavings. Sump degreased, mating surfaces on sump and rear end cleaned. Old silicone removed from mounting stud threads and sump holes. Crownwheel and pinion inspected, crownwheel has normal wear, pinion has more excessive wear on drive side closer to root of gear teeth but still in good working order. New gasket made for sump and sump reinstalled, silicone used with new gasket. Rear end filled until excess fluid drained from drain plug, drain plug reinstalled.	135.00	1,080.00
6	Gerardo	Feb 21 Measurements taken and sketch made for machining oil filter adapter plates. Rear section of gearbox tunnel installed. Passenger side interior vacuumed, passenger seat reinstalled. Rear floor mat will not fit under passenger seat when installed, nuts loosened, seat lifted, floor mat positioned. Passenger side seat bolted down.	135.00	810.00
1	Gerardo	Feb 25 Clutch release rod removed. Rod degreased and painted, reinstalled.	135.00	135.00
	Consuma...	Consumable parts and supplies	35.00	35.00
		Sales Tax	9.50%	3.33

Total \$17,183.33

Payments/Credits \$0.00

Balance Due \$17,183.33

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Invoice #: 4907

0.5	Gerardo	Mar 18 Motor filled with oil, level checked. Filter primed with oil.	135.00	67.50
4	Gerardo	April 15 Tachometer reinstalled. Speedometer is offset, hardware loosened and speedometer centered. Driver seat reinstalled. Battery charged. Spark plugs removed, engine cranked over to build oil pressure, gauge is not displaying oil pressure. Spark plugs reinstalled. Attempted to run motor, sounds like its not firing on all cylinders. Distributor timing adjusted and attempted to run motor after, still will not run. Distributor cap removed and inspected.	135.00	540.00
8	Gerardo	April 16 Spark plug wires ohm tested for proper routing, all correct. Distributor cap reinstalled. Oil filter removed and housing filled with oil, starter bumped, pump is now moving oil. Oil filter reinstalled. Fuel pumped out of tank, 5 gallons of 91 octane fuel added. Vehicle ran, now has oil pressure but ignition needs more advancement. Distributor cap removed, distributor removed with spacer. Distributor lip at spacer too tight to adjust timing, spacer bore sanded for easier movement. Distributor reinstalled, cap reinstalled and engine runs. Tunnel covering gearbox reinstalled, trim ring for shifter reinstalled. Driver seat reinstalled. Cam cover bolts retorqued. Gearbox sump leaking fluid, bolts tightened and area cleaned to see if leaking subsides.	135.00	1,080.00

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5.5	Gerardo	April 18 Gearbox sump still leaking after tightening hardware. Fluid drained from gearbox. Hardware for sump removed, sump separated from gearbox but will not clear tube frame. 2 studs removed from right side of sump, sump removed. Old silicone removed from sump mating surfaces, then degreased. Silicone applied to sump and reinstalled. Passenger seat and tunnel for gearbox removed. Gearbox filled with fluid. Tunnel and passenger seat reinstalled. Battery keeps discharging, battery removed and warrantied out for a new one. Battery reinstalled. Vehicle ran, hard to start when cold but fires right up once it's been running for a bit.	135.00	742.50
5	Gerardo	April 22 Test drove vehicle down Hatchery lane. All gauges function, clutch works properly and gearbox shifts through all gears. Engine makes good power. Vehicle handles well. Brake pedal has a long throw, shoes need adjustment and bleeding. Front of vehicle raised in the air and supported with jack stands. Front shoes adjusted out. Front of vehicle lowered onto the ground. Rear of vehicle raised and supported with jack stands. Noticed brake fluid leaking from rear wheel cylinders after test drive. Rear wheels removed. Rear left axle nut removed, drum and hub removed. Rear left wheel shoes, drums, and wheel cylinder inspected, brake fluid leaking past both dust seals on wheel cylinder, shoes and drums have light coating of brake fluid.	135.00	675.00

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8	Gerardo	April 23	Rear right axle nut, hub, and drum removed. Shoes are saturated in brake fluid, wheel cylinder is dumping fluid. Brake fluid evacuated from system. Rear shoe return springs and anchor pins removed, shoes removed. Brake lines removed from rear wheel cylinders, wheel cylinders removed. Front of vehicle raised and supported with jack stands. Front wheels removed. Front spindle nuts removed, hubs and drums removed. Wheel cylinders, drums, and shoes inspected, front right shoes are coated with brake fluid, both wheel cylinders are leaking. Front shoe return springs and guides removed, shoes and return springs removed. Brake lines to front wheel cylinders removed, wheel cylinders removed. Brake lines to brake master cylinder disconnected, brake switch unplugged. Master cylinder removed. Brake lines flushed. Shoes, wheel cylinders, and master cylinder boxed up to send out for repair.	135.00	1,080.00
1.5	Gerardo	April 24	Air filters and their towers removed from carburetors. Linkages to carburetors removed. Fuel lines removed, carburetors removed and labeled.	135.00	202.50

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8	Gerardo	April 25 Lid for carb fuel bowls removed. Accelerator pumps tested, plunger pushes fuel but does not flow out of accelerator pump jet, fuel is injecting back into fuel bowl. Floats, needles, and seats removed from lids. Choke components removed. Jets, throttle levers, accelerator pump cams and levers, and hardware removed from carburetor housings. Accelerator pump components disassembled and inspected. Accelerator pump, idle, and main jets unplugged and initially cleaned with carb drill bits. Fiber washers removed from components to measure thickness for replacement washers.	135.00	1,080.00
8	Gerardo	April 29 All non painted parts of carburetors cleaned in the ultrasonic, rinsed, and blown dry. Carb clean sprayed into jets to verify orifices are clean and free of debris. Carb bodies and tubes for accelerator pumps cleaned. Throttle levers, accelerator pump levers and cams, venturis, choke tubes, emulsion tubes, and choke plungers with springs and stops reinstalled. Choke plunger for carb number 3 sticking, stop removed and cleaned with scotch brite, reinstalled. Accelerator pump plungers reinstalled into tubes for carbs 1 and 3. Accelerator pump tubes reinstalled, fiber washers for capping ends replaced, fiber washers that affect tube fitment reused with permatex aviation sealant. Accelerator pump function tested for carbs 1 and 3, now functioning properly.	135.00	1,080.00

Total

Payments/Credits

Balance Due

5701 Old Redwood Hwy
Penngrove, CA 94951
(415) 924-9022

Job: Maserati A6 2147

For:



Invoice Date: 7/18/2025

Invoice #: 4907

8	Gerardo	April 30 Throttle lever, accelerator pump lever and cam, venturi, choke tube, emulsion tube, and choke plunger with spring and stop reinstalled onto carb number 2. Accelerator pump plunger reinstalled into tube. Accelerator pump tube reinstalled onto carburetor, fiber washers replaced for caps on tube, washers affecting tube spacing reused and permatex aviation sealant applied for carb number 2. Accelerator pump function tested, jet now functions. New gaskets made for fuel bowl lids and carb flanges to intake manifold. Float levels adjusted, fuel bowl lids reinstalled onto carbs. Idle and main jets reinstalled. Carburetors reinstalled, choke levers and fuel lines reinstalled. Air filter towers reinstalled. Fuel pump ran to fill fuel bowls, carb 1 fuel bowl overfilling. Fuel bowl lid removed and float level adjusted, lid reinstalled. Fuel pump ran again, carbs and lines inspected for leaks.	135.00	1,080.00
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Total

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5701 Old Redwood Hwy
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For: [REDACTED]

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8	Gerardo	May 1 Idle mixture and idle speed screws reset. Vehicle ran, idle too low. Idle speed adjusted higher to just shy of 1000 rpm. Synchronometer used to match air intake of carburetors. Throttle linkages readjusted, linkages for carbs 1 and 2 shortened on belt sander to achieve proper length. Wheel cylinders and shoes inspected after rebuild, wheel cylinder link lengths vary, some links have been ground down. Front anchor pins and bores, adjusters, and shoe spacers degreased, anchor pins cleaned up with scotch brite to remove surface rust. Pins, bores, adjusters, and shoe spacers lubricated. Front wheel cylinder links installed, shoes, springs, and guides installed. Anchor pins and cotter pins installed, access covers on backing plates removed to spread cotter pins, covers reinstalled.	135.00	1,080.00
8	Gerardo	May 2 Brake master cylinder reinstalled, pushrod and spring reinstalled. Elbow for brake lines clocked, lines reinstalled, brake switch reconnected. Rear wheel cylinders and links installed. Rear anchor pins, bores, parking brake pivots, and adjusters degreased, anchor pins cleaned with scotch brite to remove surface rust. Adjusters, pins, parking brake pivots, and bores lubricated. Rear shoes and springs reinstalled, anchor pins reinstalled. Access covers on backing plates removed. Cotter pins installed for anchor pins and secured, access covers reinstalled. Brake bleeders cleaned. ;Front and rear drums cleaned and reinstalled.	135.00	1,080.00

Total

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8	Gerardo	May 6	Remaining fluid in brake fluid reservoir removed. Fresh brake fluid added to system, brake pedal pumped to start moving fluid. System vacuum bled. Brake shoes adjusted fully out, then pressure bled. Brake hydraulic system inspected for leaks, shoes adjusted inward. Vehicle lowered onto the ground. Vehicle moved outside to arc shoes. Vehicle raised and supported with jack stands. Front wheels, hubs, and drums removed. Brake Dr. set up, disc needed modification to work. Front shoes slightly adjusted out, shoes arced. Front drums, hubs, and wheels reinstalled. Rear wheels, hubs, and drums removed. Rear left hub removed from drum for use mounting brake doktor. Shoes adjusted slightly out, shoes arced. Rear left hub reinstalled onto drum, red loctite used on hardware. Rear drums, hubs, and wheels reinstalled. Vehicle lowered onto the ground and moved inside.	135.00	1,080.00
1	Verna	May 6	Assist in manual bleed of brakes and moving in and out of car throughout day.	135.00	135.00

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8	Gerardo	May 7 Vehicle raised in the air and supported with jack stands. Wheels removed. Spindle and axle nuts torqued and secured with cotter pins. Shoes adjusted out until locked against drums. Brakes bled. Shoes readjusted until slightly dragging drums. Wheels reinstalled. Vehicle lowered onto the ground. Wheels torqued, tire pressure checked, fluids checked. Engine ran, leaking fuel from fuel bowl lid on carb 1. Lid removed, float inspected, no issue. Needle removed and inspected, tip is worn. Needle swapped for new one, fuel bowl lid reinstalled. Engine ran again, no fuel leaks. Vehicle driven down Hatchery lane, then north on 101 to railroad exit and back to shop. Idle speed is high when warm. Idle adjusted down to 1000 rpm. Idle mixture adjusted. Shoes adjusted out more. Vehicle driven to Valero to refill, then driven up and down Old Redwood Hwy twice. Vehicle raised in the air and supported with jack stands, need to check shoe wear.	135.00	1,080.00
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Total

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8	Gerardo	May 8 Wheels removed. Hubs and drums removed. Shoes inspected, forward shoes have 70 to 80 percent contact, rearward have 60 to 70 percent, vehicle needs more driving to wear in shoes. Drums cleaned, drums and hubs reinstalled. Spindle and axle nuts torqued, secured with cotter pins. Wheels reinstalled. Brakes bled once more. Parking brake not engaging with current adjustment on rear shoes, shoes are too far away from the pivot. Cable adjusted at rear wheels, adjustment maxed out and still not engaging. Cable adjustment reset, return springs undone and clevises disconnected from parking brake levers. Cable stops repositioned on both sides, return springs and clevises reconnected. Cables adjusted and parking brake tested, now functional but locking mechanism at handle slips. Vehicle test driven up and down Old Redwood Hwy, clutch chatters when taking off, pressure plate needs adjustment. Passenger seat and floor mats removed, tunnel removed.	135.00	1,080.00
1	Verna	May 8 Assist in manual bleed of brakes.	135.00	135.00

Total

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8	Gerardo	May 12 Clutch release rod removed, gearbox pull. Cotter pins for adjusting nuts removed. Nuts adjusted for less free play and lever height remeasured. New cotter pins installed for adjusting nuts, height remeasured, varies .014 inches. Gearbox reinstalled, release rod reinstalled and clutch function tested, needs less freeplay. Clutch release rod removed, jam nuts for clevises removed and shaved down on belt sander for more adjustment. Measure installed height of levers and adjust to within .012". Release rod reinstalled and clutch tested, good. Vehicle test driven, clutch working properly. Return spring for throttle swapped for stiffer spring. Water drained from cooling system, refilled with coolant. Lock tab for hand brake removed and filed smooth, tab reversed and reinstalled, handle now locks in place. Interior and exterior lights checked, all functioning. Cooling fan, heater fan, and wipers function. Horn not working. After safety check noticed fuel leaking from trunk, fuel filter plugged and leaking fuel from relief hole on lid.	135.00	1,080.00
2.5	Brian	May 12 Test drive with Gerardo. Remove fuel filter housing, locate replacement and install. Run fuel pump and check for leaks. All good	135.00	337.50

Total

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5	Spenser	May 13: Oil leak observed from oil pump/filter housing, not enough time to properly remove and replace, check all hardware is tight and clean around housing. Add fuel to gas tank for delivery. Horn is non-op, traced horn wires and checked continuity, found all systems working, horn is run through a "kill switch" under the dash with one of the wires disconnected. Reconnected the wire at the switch, horn now works. Checked fluid levels and tire pressures, wiped down car, installed floor mats, polished chrome, loaded car into transport trailer.	135.00	675.00
3	Parts	Ford Motorcraft DOT 3/4 Brake Fluid	22.85	68.55
12	Penn Gra...	20/50 Brad Penn engine oil (quart)	16.80	201.60
1	Parts	Oil filter cartridge	18.41	18.41
1	Parts	Fuel filter element	18.22	18.22
2	Parts	Prestone Anti-freeze (one gallon)	25.18	50.36
1	Parts	Voltage regulator	36.55	36.55
1	Parts	Ball joint spring clips for M8 rod end ball bearing (8pcs)	14.03	14.03
2	Parts	Prestone Ant-freeze gallon size	25.18	50.36
	Gasoline	Street gasoline for vehicle test driving; 4-16-25 (5 gallons)	34.85	34.85
	Gasoline	Street gasoline for vehicle test driving; 5-7-25 (10 gallons)	72.10	72.10
	Sublet	Sublet labor - Master cylinder rebuild previously sleeved m/c casting; reline front and rear aluminum brake shoe sets; includes 4 wheels cylinders (sleeved/rebuilt) (MooseMotors)	1,634.28	1,634.28
	Consuma...	Consumable parts and supplies	25.00	25.00
	HAZMAT	Hazardous waste fees	14.00	14.00
		Sales Tax	9.50%	45.89

Total \$17,674.20

Payments/Credits \$0.00

Balance Due \$17,674.20